

Document made available under the Patent Cooperation Treaty (PCT)

International application number: PCT/US04/025898

International filing date: 10 August 2004 (10.08.2004)

Document type: Certified copy of priority document

Document details: Country/Office: US
Number: 60/498,257
Filing date: 26 August 2003 (26.08.2003)

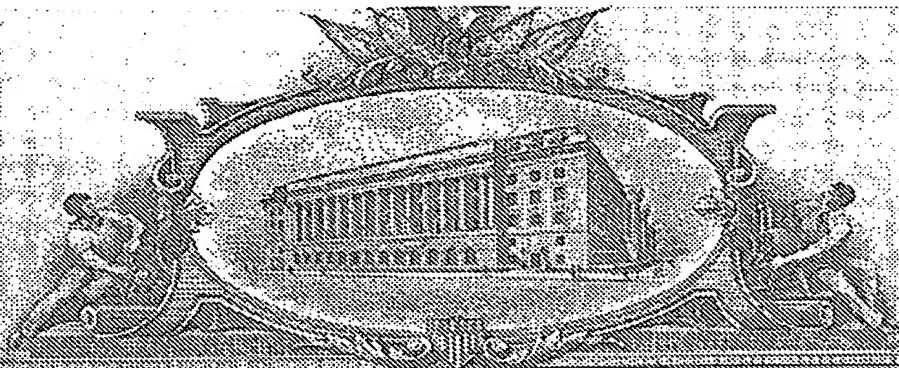
Date of receipt at the International Bureau: 13 September 2004 (13.09.2004)

Remark: Priority document submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b)



World Intellectual Property Organization (WIPO) - Geneva, Switzerland
Organisation Mondiale de la Propriété Intellectuelle (OMPI) - Genève, Suisse

1222660



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS, SHALL COME;

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

September 08, 2004

THIS IS TO CERTIFY THAT ANNEXED HERETO IS A TRUE COPY FROM THE RECORDS OF THE UNITED STATES PATENT AND TRADEMARK OFFICE OF THOSE PAPERS OF THE BELOW IDENTIFIED PATENT APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A FILING DATE.

APPLICATION NUMBER: 60/498,257

FILING DATE: *August 26, 2003*

RELATED PCT APPLICATION NUMBER: *PCT/US04/25898*

Certified by

Jon W Dudas



Acting Under Secretary of Commerce
for Intellectual Property
and Acting Director of the U.S.
Patent and Trademark Office

Please type a plus sign (+) inside this box → ☐

PTO/SB/16 (02-01)

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53 (c).

Express Mail Label N .

INVENTOR(S)

Given Name (first and middle [if any])	Family Name or Surname	Residence (City and either State or Foreign Country)
Scott Joseph	Duggan	Indianapolis, Indiana

☐ Additional inventors are being named on the _____ separately numbered sheets attached hereto

TITLE OF THE INVENTION (280 characters max)

LOW PROFILE MIRROR ADJUSTMENT SYSTEM FOR REAR PROJECTION DISPLAY

CORRESPONDENCE ADDRESS

Direct all correspondence to:

☐ Customer Number

OR

Type Customer Number here

Place Customer Number
Bar Code Label here

☒

Firm or
Individual Name

JOSEPH S. TRIPOLI, THOMSON LICENSING INC.

Address

PATENT OPERATIONS.

Address

P. O. BOX 5312

City

PRINCETON

State

NJ

ZIP

08543-5312

Country

USA

Telephone

609-734-6834

Fax

609-734-6888

ENCLOSED APPLICATION PARTS (check all that apply)

☒ Specification Number of Pages

3

☐ CD(s), Number

☒ Drawing(s) Number of Sheets

2

☐ Other (specify)

☐ Application Data Sheet. See 37 CFR 1.76

METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)

☐ Applicant claims small entity status. See 37 CFR 1.27.

☐ A check or money order is enclosed to cover the filing fees

☒ The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number:

07-0832

FILING FEE
AMOUNT (\$)

160

☐ Payment by credit card. Form PTO-2038 is attached.

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No.

☐ Yes, the name of the U.S. Government agency and the Government contract number are: _____

Respectfully submitted,

SIGNATURE

Patricia A. Verlangieri

Date

08/26/03

REGISTRATION NO.
(if appropriate)

42,201

TYPED or PRINTED NAME

Patricia A. Verlangieri

Docket Number:

PU030254

TELEPHONE 609 734-6867

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. The information is used by the public to file (and by the PTO to process) a provisional application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the complete provisional application to the PTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C., 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Box Provisional Application, Assistant Commissioner for Patents, Washington, D.C. 20231.

16235 U.S. PTO

60/498257

08/26/03

LOW PROFILE MIRROR ADJUSTMENT SYSTEM FOR REAR PROJECTION DISPLAY

FIELD OF THE INVENTION

5 The present invention is directed toward displays and in particular, toward rear projection displays.

BACKGROUND OF THE INVENTION

10 Most rear projection displays include a mirror mounted inside the rear of the display. The mirror may need to have small adjustments made to the mirror angles.

SUMMARY OF THE INVENTION

15 The present invention is a low profile mirror adjustment system for a rear projection display. The mirror adjustment system includes one or more adjuster screws and one or more spring clips. The adjuster screw and the spring clip work in unison with a support bracket to permit small adjustments for the mirror angle if needed.

BRIEF DESCRIPTION OF THE DRAWINGS

20 The invention is hereinafter described in detail with reference to the accompanying drawings, in which:

 FIG. 1 depicts a side view of one embodiment of the low profile mirror adjustment system; and

25 FIGS. 2 depicts an assembled side view of the low profile mirror adjustment system shown in FIG. 1.

DETAILED DESCRIPTION

30 The present invention is a low profile mirror adjustment system for a rear projection display. The mirror adjustment system includes one or more adjuster screws 6 and one or more spring clips 5 (FIG. 1) The adjuster screw and the spring clip work in unison with a support bracket 10 to permit small adjustments for the mirror 11 angle if needed.

The spring clips 5 should be formed of a metal, such as for example aluminum (Al) or plastic. The adjuster screws 6 may be form of a metal or plastic and may be made using any suitable process such as for example sheet metal forming, roll forming, die casting and extrusion, among others.

5 Referring to FIGS. 1 and 2, three adjuster screws 6 and spring clips 5 may be work in unison with a mirror support bracket 10 to permit small adjustments to the mirror 11 angle. The spring clips 5 hold the mirror 11 directly on the support bracket 12. Each spring clip 5 is attached over an adjuster screw 6. The adjuster screw 5 has a locking portion (details) that seats to the support bracket 10, preventing movement
10 after the adjuster screw has been set. When adjusted the adjuster screw 6 moves the mirror and the spring clip 5. As such, the mirror remains securely fastened to the support bracket 10 (FIG. 2).

ABSTRACT

5 The present invention is a low profile mirror adjustment system for a rear projection display. The mirror adjustment system includes one or more adjuster screw and one or more spring clip. The adjuster screw and the spring clip work in unison with a support bracket to permit small adjustments for the mirror angle if needed.

PU 030254

Sheet
1/2

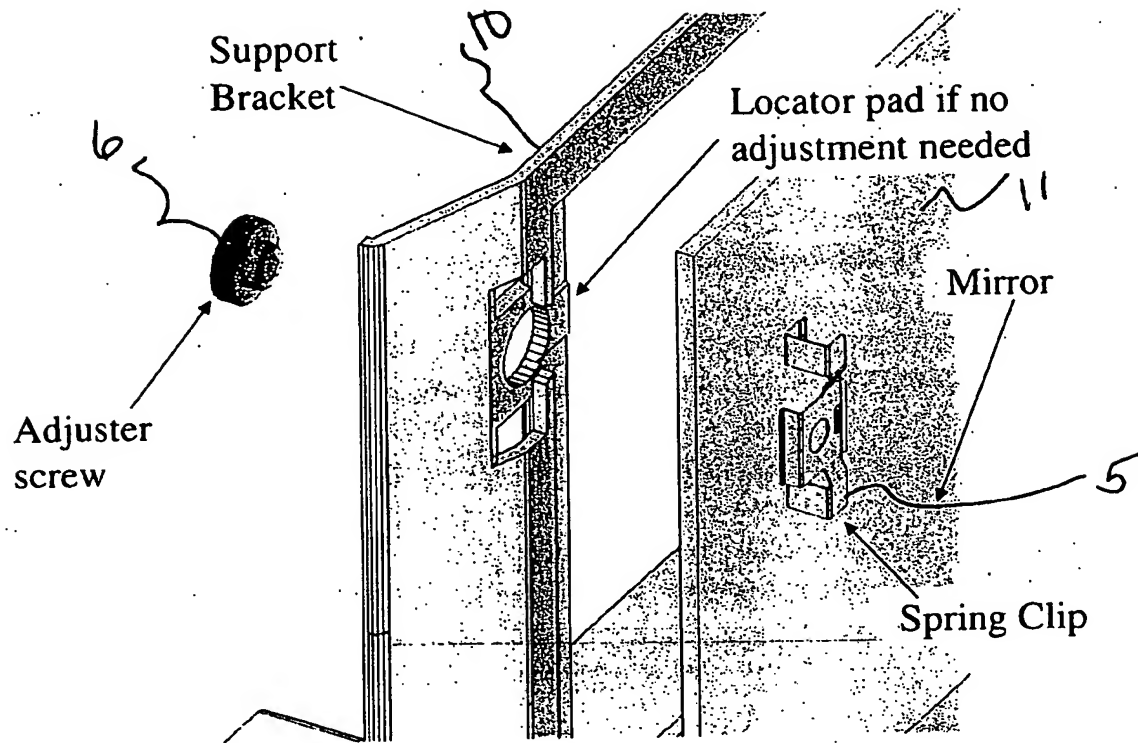


FIG. 1

BEST AVAILABLE COPY

Sheet
2/2

P0030254

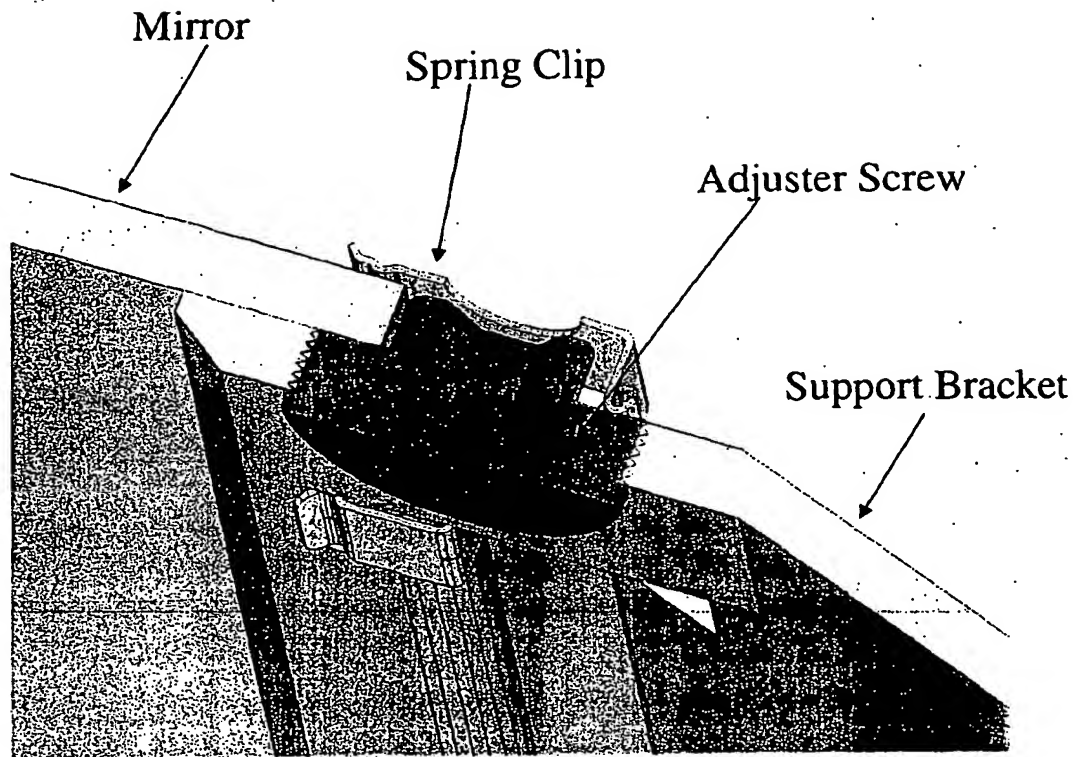


FIG. 2

BEST AVAILABLE COPY